

San Juan Plant 2 Site 1000
4552 South Ute Street Parkway,
Denver, Colorado 80237
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000007146
Woodward-Clyde Consultants

May 16, 1990

Mr Tom Greengard
EG&G, Rocky Flats, Inc
Rocky Flats Plant
P O Box 464
Golden, Colorado 80402-0464

Subject BOA BA 56801 PB
Project BA 68162 PB
WC Project 4004-510
Surface Drainage Conditions at Present Landfill

Dear Mr Greengard

At your request, this letter describes the existing surface drainage conditions at the Present Landfill and presents measures that could be taken to improve them. Drainage on the landfill surface was described as generally poor in the draft final Phase I RFI/RI Work Plan we recently prepared for the Present Landfill. The ground surface is irregular and hummocky, resulting in impeded drainage and areas where standing water collects during precipitation and snowmelt. Although run-on to the landfill is controlled by a perimeter interceptor ditch, it is possible that poorly drained areas of the landfill surface promote infiltration of precipitation and runoff into the landfill. It is probable that at least some of the groundwater present in the landfill wastes is recharged by infiltration of incident precipitation on the landfill surface.

Infiltration of precipitation into the landfill could be reduced by improving surface drainage conditions on the landfill surface. In general, this would involve regrading the landfill surface to uniform lines and grades to promote more efficient runoff. Figure 10 in the Present Landfill Closure Plan dated, July 1, 1988, shows a conceptual site grading plan that may be appropriate. Grading the landfill surface would probably involve the addition of relatively low permeability, properly compacted clayey fill.

If surface drainage improvements are desired at this time, the existing topography should be evaluated in more detail before designing the improvements. The proposed landfill regrading shown in the 1988 Closure Plan should be considered conceptual in nature. We are available to assist you in developing plans for surface drainage improvements or in preparing a cost estimate to implement improvements.

(dq) (4004 510 39) (backes ltr) (05/17/90)

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and Environmental Scientists

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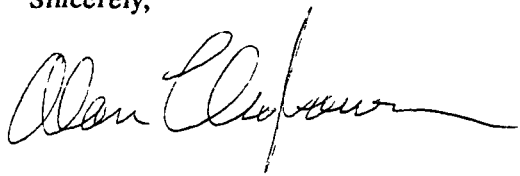
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If you have any questions or if we may be of further assistance, please contact us

Sincerely,

A handwritten signature in cursive script, appearing to read "David M. Jubenville", followed by a long horizontal flourish.

For David M Jubenville, P E
Vice President

cc Pat Backes, EG&G
Loren Zweig, EG&G